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1	1.1
7	2.1
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10	1.2
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42	1.4
42	1.1.4
44	2.1.4
46	3.1.4
47	4.1.4
49	5.1.4
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51	3.4
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77	2.4.4

84

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55	ANOVA	13

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64	ANOVA	17
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67	ANOVA	19
68		20
70	ANOVA	21
71		22
74	ANOVA	23
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Abstract
Prediction of deviant behavior among high school student in
Tabuk area: Survey study

Fahad Al-Kindy

Mu'tah University, 2011

The study aimed to assess in particular the effect of family , school, community ,neighbors and the friends on the prediction of deviant behavior among the high school students in tabuk area. In order to achieve this goal it depends on the social survey method through closed questionnaire among the high school students in the schools of tabuk area..

The results indicated that the students, deviant behavior increase as the fathers level of education is low , and the fathers careless about his problems, where he goes and has more than one wife, the students family is authoritative undemocratic and uses violence to raise the students, punishing him through battery, mortification, and humiliation in case he makes any mistakes, the students were exposed to deviant peers, in terms of robbery, drugs and damaging public property school or psychological stress, such as humiliation and mortification by their friends, in order to seduce them to quit studying and going to school. Consequently, their achievement was low, and facing difficulties in most educational courses, so they feel unwanted by teachers in the school, so they thought seriously to leave the school. On the other hand, the students who are originally from Tabuk and living there for along time and their families live in good neighborhoods, their families have a good relationship with their neighbors, take part in their occasions, asking them to take care of their houses while they were away, as a result their community has solidarity and cooperation, as a result, deviance is low.

The study concluded with a set of recommendations such as: activating the educational counselor in warning family, teacher, student towards democratic educational methods and its benefits, teaching methods in dealing with the students and raising the student's mark with monitoring him concerning companions and schools.

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Social)

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(Solidarity
(Social organization)

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Hirschi, 1969)

(Agnew, 1991)

(Nye, 1958

Reckless, 1951

(Maguin et al , 1995)

(Hoge et

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al, 1994)

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The structuring

The relationship dimension

dimension

(Hanson et al, 1984)

(Farrington, 1989)

(Williams et al, 1991)

(Loeber & Loeber, 1986)

(McCord & McCord, 1979)

(1969)

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(Catalano &

(Denno, 1990)

Hawkins, 1996)

(Cerkovich & Giordo, 1992)

(Maguin et al, 1995)

(Thornberry et al, 1991)

(1969)

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(Leventhal & Brooks-Gunn, 2004)

(Bursik & Gramick, 1993)

(Elliott et al

(Brody et al , 2010)

,1996)

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(Henry et al, 2001)

.(Patterson et al , 2000)

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(Show & Mckay, 1969)

.(2008)

(Sampson et al, 1999)

(Elliott et al, 1996)

(Sampson et al , 1987)

(Elliott et al , 1996)

(Leventhal & Brooks-Gumm, 2004)

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(Beyers et al, 2003)

(Brody et al

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.(Tolan et al, 2003) & McMahon, 1998)

(Elliott et al , 1985)

(Kornhauser, 1978)

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(Tolan et al,

.2003)

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(Hirschi, 1969)

(Scaramella et al 20002)

(Agnew, 2003)

(Aseltine, 1995)

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(Agnew, 1991)

The absolute deprivation model

The relative deprivation model

.(Agnew , 1991)

(Shaw & McKay,

1942 , 1969)

.(2008)

(Blau & Blau , 1982)

(Logan & Messner, 1987)

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(Sampson et al 1986, Peeples &

Loeber, 1994, Sampson & Groves, 1989 , Beyers, et al, 2001)

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(Sampson & Laub, 1994)

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(1969)

(Garnier & stein, 2002 , Henry et al 2001, Agnew, 1991, Haynie, 2001)

(Osgood & Anderson, 2004)

(Thornberry, 1987)

(Elliott, et al, 1985)

(Simon et al, 1991)

(Scaramella et al, 2002)

(Aseltine, 1995, Costello

.and Vowell, 1999, Erickson et al , 2000)

(Agnew, 2003)

(Peebles & Loeber, 1994)

(Smanson et al, 1997)

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(Demuth &

(Sampson & Laub, 1994)

Brown, 2004)

(1969)

(Agnew , 1991)

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(Matsuda, 1982)

(Hoffman, 2002)

(Benda, 1995)

(Agnew, 1991)

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(Cheung & Young, 2010)

Gender differential in deviant friends influence on children and youth

(566)
(12 – 11)

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(Farina et al, 2008)

neighborhood and community Factors: effects on deviant behavior :

and social competence

(346)

(191)

(155) :

– 11)

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(2000)

Self-repoted : (Fitzgerald, 2009)
 violent delinquency and the influence of school neighbourhood and student
 characteristic

(149) (30137)
 (21)
 (%48) (%52)

(Thompson, Andrews and
 Barkley, 2008)
 (420)

(20)

(Chung & Stienberg , 2006)

(488)

(18 – 14)

(Herreo et al,

The relationships of adolescent shool, related deviant : 2006)
behavior and victimization with psychological distress: testing a general
model of the meditational role of parents and teachers across groups of
11) (973) gender and age
(16 –

(Dumuth & Brown, 2004)

family structure, family processes , and adolescent delinquency: the :
sign ificance of parental absence versus parental gender
(1995)

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(Martinez, et al, 2002)

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: (Henry et al, 2001)
longitudinal family and peer group effects on violent and nonviolent
(246) delinquency

Early : (Farrington , 1996)
 predictors of adolescent aggression and adult violence
 (35 16) (185)
 (13 – 10) (2000) (1990)
 (25 – 21) (15 – 13)
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 (2009) (2010) (2010)

(1996) .

Cheung &)

(Young, 2010

(Fitzgerald , 1996)

(Thompson et al , 2008)

(Cheung and Stienberg, 2006)

(Farna et al, 2008)

(Herreo et al , 2005) .

(Demoth & Brown , 2004)

(Martinez et al , 2002)

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(Henery et al, 2001)

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Normative assimilation

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5 =

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-2

.(0.8 = 5 ÷ 4)

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.(1.8 1) -1

(2.6 1.8) -2

.(3.4 2.6) -3

.(4.2 3.4) -4

.(4.2) -5

:(1.67 = 5 ÷ 3)

.(1.67 1) -1

(3.33 1.68) -2

.(5 3.34) -3

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(7)

. %80

: 5.3

(50)

(Cronbach Alpha)

(1)

(1)

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14	%81
18	%86
20	%85
8	%80
17	%95
10	%87
8	%90
95	%92

(1)

(%95 %80)

(%92)

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6.3

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(SPSS®19)

(Descriptive Statistics Measures)

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.Stepwise Regression

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8.3

-1

(2)

(17.5)

(%16.4)

(%42)

(%14.8)

(20 19)

(%25.5)

(%22.6)

(0.9)

(1.7)

(%21)

(%39)

(%11.7)

(4.7)

(9.7)

(%24)

()

(%14.8)

(%17.3)		%31
	(%0.6)	
	.(%10.2)	(%1.3)
.(%6.8)	(%1.6)	(%1.1)
(%36)		
		(%30)
	(%43.5)	(%6)
.		(%10.6)
(17250)	(12377)	
	(5000)	%22.7
	.(%23.2)	(10)

(2)

.			
(%)			
16.4	137	16	
64.4	538	18 - 17	
14.8	124	20-19	
4.4	37		()
0.99		17.5	
25.5	213		
42.0	351		
22.6	189		
9.9	83		
39.0	326	1	
20.8	174	2	
7.2	60	3	
4.5	38	4	()
28.5	238		
0.90		1.7	
21.5	180	6	
32.3	270	9 - 7	
26.6	222	15 - 10	
10.3	86	30 - 16	()
9.3	78		
4.7		9.7	
23.9	200		
10.4	87	.()	
17.0	142		
8.0	67		
14.1	118		
2.3	19		

7.7	64	
4.8	40	
11.8	99	
31.2	261	
10.4	87	.()
15.0	125	
5.7	48	
7.4	62	
4.9	41	
8.6	72	
3.8	32	
12.9	108	
75.7	633	/
10.2	85	/
1.3	11	/
0.6	5	/
12.2	102	
77.2	645	/
6.8	57	/
1.6	13	/
1.1	9	/
13.4	112	
3.9	33	
35.9	400	
8.6	72	
0.5	4	/
3.8	32	
2.9	24	/
30.0	251	
5.9	49	

8.5	71			
4.1	34			
10.6	89			
0.7	6			
0.1	1			
0.6	5			
3.1	26	/		
43.5	364			
6.0	50			
10.6	89			
20.6	172			
22.7	190	5000		
31.0	259	10000-5000		
23.2	194	10000	()	
23.1	193			
17250	12377			
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		(836)	:	•
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				-2
		(3)		
		(%61.5)		
		(%38.5)		
	(14.6)			
(5)			(10.9)	
(20)			(%10)	
	(%42)	(%39.7)	.(%9)	
	(%23.8)	(%23)	(%29.7)	
	(%65.5)	.	(%22)	

(%11.7)	.	(%4.4)	(%28.8)
(%6)		(%6.6) 1	
		(%14)	(%5)
	.	(%10)	
	(%38)		
		.(%50.5)	
(%25)	(%28.7)		(%30)
		(%27)	
(6)			(%6)
	(%17.6)	(3)	
	(%26.7)	(3)	
	(%42.6)	.	(6)
(2.4)			
		(%26)	(1.4)
(5)			
		.	%20

(3)

.		
(%)	
61.5	514	
38.5	322	
9.9	83	5
7.9	66	6 - 10
11.8	99	11 - 20
8.9	74	21
61.5	514	
10.9	14.6	
29.7	248	
23.8	199	
39.7	332	()
6.8	57	
23.1	193	
22.2	186	
42.0	351	()
12.7	106	
65.8	534	
28.8	234	
4.4	36	
2.4	20	
14.5	121	
4.2	35	
1.3	11	
11.7	98	1
6.6	55	
6.1	51	
0.4	3	
4.1	34	

1.3	11
3.9	33
1.2	10
0.1	1
0.1	1
2.5	21
0.1	1
5.1	43
1.9	16
0.4	3
0.5	4
1.4	12
2.5	21
1.0	8
0.8	7
0.1	1
3.9	33
1.1	9
2.0	17
2.0	17
0.1	1
0.8	7
1.6	13
0.7	6
1.1	9
12.3	103
14.0	117
73.0	610
10.2	85
37.9	317
56.0	468
6.1	51

50.5	422		
44.0	368		
5.5	46		
28.7	240		
8.1	68		
25.1	210		
30.3	253		
7.8	65		
64.1	536		
26.9	225		
5.9	49		
3.1	26		
17.6	147	1-3	
48.3	404	6-4	
26.7	223	7	
7.4	62		()

(6)

(3)

42.6	356		
55.4	463		
2.0	17		

(2.4)

1.4

26.1	218		
34.1	285	2 - 5	
20.0	167	6	
19.9	166		()

(18.3)

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(%22.5) (5)
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(%11.6) .
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(%14) .(%70
(%47) (%36.7)
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(%5.6)
(%41)
(%41.6) (%8)

(5)

.		
(%)		
22.5	188	
48.7	407	
18.8	157	
8.4	70	
1.7	14	
11.6	97	
17.2	144	
48.6	406	
18.9	158	
3.7	31	
36.2	303	100-90
22.5	188	89-80
18.3	153	79-70
8.0	67	69-60
6.9	58	59-50
4.9	41	
3.1	26	
13.9	116	
36.7	307	
47.2	395	
2.2	18	
41.3	345	
41.6	348	
8.3	69	
5.6	47	
3.2	27	
(836) :		
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1.4

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1.1.4

(6)

.(0.67)
(6)

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(6)

1.161	4.19
1.219	4.12
1.183	4.09
1.100	3.96
1.249	3.91
1.143	3.87
1.291	3.37
1.256	3.36
1.433	2.71
1.418	2.67
1.487	2.62
1.408	2.43
1.337	2.35
1.426	2.22
0.67	3.28

: **2.1.4**

(7)

.(0.71) (3.17)
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1.282	3.82	
1.219	3.60	
1.282	3.49	
1.238	3.48	
1.338	3.46	
1.238	3.36	
1.353	3.23	
1.374	3.22	
1.299	3.20	
1.248	3.14	
1.281	3.13	
1.353	3.01	
1.353	2.93	
1.518	2.91	
1.429	2.91	()
1.431	2.77	
1.368	2.73	
1.506	2.54	
0.71	3.17	

: 3.1.4

(8)

(3.26)

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(8)

1.281	4.06
1.348	3.73
1.401	3.58
1.310	3.55
1.428	3.17
1.400	2.98
1.390	2.97
1.456	2.90
1.424	2.89
1.584	2.76
0.94	3.26

: **4.1.4**

(9)

(0.71) (2.99)

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(9)

1.392	3.97
1.349	3.92
1.388	3.91
1.457	3.71
1.396	3.70
1.320	3.61
1.435	3.56
1.375	3.51
1.407	3.44
1.356	2.93
1.423	2.86
1.433	2.66
1.501	2.53
1.395	2.43
1.392	2.39
1.606	2.25
1.507	2.22
1.459	2.19
1.400	2.15
1.441	2.01
0.708	2.99

: **5.1.4**

(10)

(0.91) (3.37)
(10)

(10)

1.356	3.93
1.368	3.83
1.309	3.81
1.485	3.34
1.438	3.27
1.485	3.11
1.445	2.85
1.406	2.78
0.91	3.37

: 2.4

(11)

(11)

3-1	1.07	2.01
3-1	0.97	2.00
3-1	1.08	1.96
3-1	1.11	1.87
	1.00	1.78
	1.00	1.74
	1.02	1.70
	1.01	1.66
3-1	0.79	1.85

: **3.4**

(12)

(3.85)

.(0.97)

(12)

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(12)

1.307	4.08
1.305	4.07
1.348	4.05
1.305	4.04
1.345	4.04
1.352	4.03
1.310	4.02
1.290	4.01
1.285	3.83
1.269	3.82
1.308	3.77
1.370	3.77
1.282	3.74
1.332	3.71
1.405	3.58
1.354	3.57
1.292	3.38
0.97	3.85

: **4.4**

(Stepwise Multible .Lineare .Regression

.Analysis)

(5 2)

(11 6)

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(y)

R^2

(0.05)

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14)

(21 19 17 15 13)

(22 20 18 16

(12)

.(11 6)

(1)

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(14 13)

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P-Value <) (%36.7)
(14) F (0.00
(P-Value < 0.05)

(5) VIF

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D.W -

(1.98)

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(12))

(5)

(1)

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(13)

ANOVA

F					
0.000 ^a	211.994	154.747	1	154.747	1
		0.730	675	492.724	
			676	647.471	
0.000 ^b	137.140	93.637	2	187.274	2
		0.683	674	460.197	
			676	647.471	
0.000 ^c	105.039	68.828	3	206.483	3
		0.655	673	440.988	
			676	647.471	
0.000 ^d	87.214	55.315	4	221.259	4
		0.634	672	426.212	
			676	647.471	
0.000 ^e	72.469	45.408	5	227.038	5
		0.627	671	420.433	
			676	647.471	
0.000 ^f	62.421	38.693	6	232.159	6
		0.620	670	415.312	
			676	647.471	
0.000 ^g	54.465	33.577	7	235.039	7
		0.616	669	412.432	
			676	647.471	
0.000 ^h	48.352	29.680	8	237.437	8
		0.614	668	410.034	
			676	647.471	

(). a

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(.) h.

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(14)

Collinearity Statistics		Standardized Coefficients				
R ²	VIF	.	t	Beta	Std. Error	B
%23.9	1.000	0.000	24.220		0.102	2.470 ()
		0.000	14.560	0.489	0.024	0.355 1
		0.000	18.692		0.112	2.099 ()
%28.9	1.347	0.000	9.465	0.357	0.027	0.259 2
	1.347	0.000	6.902	0.260	.0270	0.1860
%31.6		0.000	19.281		0.126	2.435 () 3
	1.353	0.000	9.305	0.344	0.027	0.250
	1.348	0.000	6.961	0.257	0.026	0.184

	1.007	0.000	-5.414	-0.173	0.022	-0.122	
		0.000	17.602		0.129	2.269	()
%34.2	1.521	0.000	7.312	0.282	0.028	0.205	
	1.402	0.000	5.991	0.222	0.026	0.159	
	1.007	0.000	-5.612	-0.176	0.022	0-.124	4
	1.318	0.000	4.827	0.173	0.025	0.121	
		0.000	17.056		.130	2.210	()
	1.559	0.000	6.793	0.264	0.028	0.191	
	1.604	0.000	4.554	0.179	0.028	0.128	
	1.010	0.000	-5.798	-0.181	0.022	-0.128	
%35.1							5
	1.366	0.000	4.199	0.153	0.025	0.106	
	1.491	0.002	3.037	0.115	0.026	0.078	
%35.9		0.000	17.378		0.130	2.260	() 6
	1.559	0.000	6.838	0.264	0.028	0.192	
	1.613	0.000	4.775	0.188	0.028	0.134	

	1.520	0.002	-3.088	-0.118	0.027	-0.083	
	1.376	0.000	4.456	0.162	0.025	0.113	
	1.492	0.002	3.127	0.118	0.026	0.080	
	1.533	0.004	-2.874	-0.110	0.026	-0.075	
%36.3		0.000	17.215		0.137	2.353	() 7
	1.593	0.000	6.470	0.252	0.028	0.183	
	1.628	0.000	4.558	0.179	0.028	0.128	
	1.684	0.024	-2.268	-0.091	0.028	-0.064	
	1.379	0.000	4.360	0.158	0.025	0.110	
	1.493	0.002	3.177	0.120	0.026	0.081	
	1.611	0.020	-2.334	-0.091	0.027	-0.062	

1.460	0.031	-2.162	-0.081	.0230	-0.050	
	0.000	16.796		0.138	2.315	()
1.601	0.000	6.323	0.246	0.028	0.1790	
1.818	0.000	3.683	0.153	0.030	0.109	
1.697	0.015	-2.436	-0.098	0.028	-0.069	
1.388	0.000	4.201	0.152	0.025	0.106	
%36.7						8
1.497	0.002	3.077	0.116	0.026	0.079	
1.626	0.012	-2.518	-0.099	0.027	-0.068	
1.461	0.037	-2.095	-0.078	0.023	-0.048	
1.383	0.049	1.977	0.072	0.025	0.049	
						() 1

(16 15)

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(P-Value < 0.00) (%35.5)

(16)

F

(P-Value < 0.05)

(5)

VIF

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D.W

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(15)

ANOVA

F					
0.000 ^a	333.600	218.916	1	218.916	1
		0.656	765	502.011	
			766	720.928	
0.000 ^b	199.510	123.671	2	247.343	2
		0.620	764	473.585	
			766	720.928	
0.000 ^c	139.851	85.258	3	255.775	3
		0.610	763	465.153	
			766	720.928	
(). a.					
(). b					
(). b c.					
()1					

(16)

Collinearity Statistics		t		Standardized Coefficients			
R ²	VIF			Beta	Std. Error	B	
30.4%		0.000	25.776		0.090	2.312	()
	1.000	0.000	18.265	0.551	0.022	0.393	1
		0.000	22.160		0.094	2.078	()
34.3%	1.811	0.000	9.434	0.372	0.028	0.266	2
	1.811	0.000	6.772	0.267	0.028	0.191	
35.5%		0.000	21.758		0.103	2.244	()
	1.839	0.000	9.898	0.390	0.028	0.279	
	1.812	0.000	6.741	0.264	0.028	0.188	3
	1.022	0.000	-3.719	-0.109	0.020	-0.073	
							()1

(18 17)

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(%34.9)

F

(P-Value < 0.00)

(17)

(P-Value < 0.05)

VIF

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(2.01)

D.W

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(17)

ANOVA

F					
0.000 ^a	294.742	200.143	1	200.143	1
		0.679	762	517.432	
			763	717.575	
0.000 ^b	179.022	114.796	2	229.592	2
		0.641	761	487.983	
			763	717.575	
0.000 ^c	127.388	80.033	3	240.098	3
		.628	760	477.477	
			763	717.575	
0.000 ^d	98.825	61.435	4	245.740	4
		.622	759	471.835	
			763	717.575	
0.000 ^e	81.283	50.091	5	250.454	5
		.616	758	467.121	
			763	717.575	
() a.					
() b.					
() c.					
() d.					
() e.					
() 1					

(18)

R ²	Collinearity Statistics	.	t	Standardized Coefficients	Std. Error	B	
	VIF			Beta			
27.9%	1.000	0.000	79.526		0.060	4.776	()
		0.000	-17.16	-0.528	0.030	-0.510	1
		0.000	79.718		0.062	4.910	()
32%	1.717	0.000	-9.102	-0.357	0.038	-0.344	2
		0.000	-6.777	-0.265	0.037	-0.251	
		0.000	80.365		0.062	4.943	()
33.5%	2.318	0.000	-5.833	-0.263	0.043	-.254	3
		0.000	-4.730	-0.199	0.040	-0.188	
		0.000	-4.089	-0.190	0.045	-0.182	
34.2%	2.565	0.000	78.952		0.063	4.991	()
		0.000	-4.640	-0.219	0.045	-0.211	
		0.000	-4.088	-0.174	0.040	-0.165	4
34.9%	2.485	0.000	-3.752	-0.174	0.045	-0.168	
		0.003	-3.012	-0.116	0.033	-0.101	
		0.000	74.62		0.068	5.061	()

2.770	0.000	-3.731	-0.182	0.047	-0.176
2.182	0.001	-3.480	-0.151	0.041	-0.142
2.522	0.000	-4.075	-0.190	0.045	-0.183
1.737	0.006	-2.770	-0.107	0.033	-0.093
1.388	0.006	-2.766	-0.095	0.034	-0.094

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(20 19)

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(P-Value < 0.00) (%20.6)

(19) F

(P-Value < 0.05)

(5) VIF

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D.W -

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(19)

ANOVA

F					
		108.345	1	108.345	
0.000 ^a	139.686	0.776	718	556.906	1
			719	665.251	
		59.745	2	119.489	
0.000 ^b	78.490	0.761	717	545.762	2
			719	665.251	
		42.657	3	127.970	
0.000 ^c	56.846	0.750	716	537.282	3
			719	665.251	
		33.449	4	133.795	
0.000 ^d	45.001	0.743	715	531.457	4
			719	665.251	
		27.379	5	136.896	
0.000 ^e	36.999	0.7400	714	528.355	5
			719	665.251	
					(). a.
					(). b.
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					(). d.
					(). e.
					() 1

(20)

R ²	Collinearity Statistics VIF	.	t	Standardized Coefficients		B	
				Beta	Std. Error		
		0.000	19.81		0.123	2.444	()
%16.3	1.000	0.000	11.82	0.404	0.028	0.334	1
		0.000	18.84		0.125	2.350	()
%18	2.866	0.000	3.959	0.227	0.047	0.188	2
	2.866	0.000	3.826	0.219	0.045	0.172	
		0.000	17.915		0.145	2.607	()
%19.2	2.872	0.000	3.842	0.219	0.047	0.181	3
	2.891	0.000	3.527	0.201	0.045	0.158	
	1.048	0.001	-3.362	-0.116	0.023	-0.078	
		0.000	17.31		0.147	2.540	()
	2.957	0.001	3.328	0.191	0.048	0.158	
%20.1	2.946	0.002	3.127	0.179	0.045	0.141	4
	1.094	0.000	-3.882	-0.136	0.024	0-.092	
	1.253	0.005	2.799	0.105	0.028	0.078	
%20.6		0.000	17.43		0.149	2.596	() 5
	2.962	0.001	3.418	0.196	0.048	0.163	
	2.950	0.002	3.060	0.175	0.045	0.138	

1.388	0.012	-2.513	-0.099	0.027	-0.067
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1.260	0.003	2.956	0.111	0.028	0.083
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1.312	0.041	-2.047	-0.078	0.026	-0.06
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(22 21)

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(P-Value < 0.00)

(%17.7)

(21)

F

(P-Value < 0.05)

(5)

VIF

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D.W

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(21)

ANOVA

F					
0.000 ^a	73.542	64.504	1	64.504	1
		0.877	764	670.114	
			765	734.619	
0.000 ^b	55.264	46.476	2	92.952	2
		0.841	763	641.667	
			765	734.619	
0.000 ^c	49.226	39.753	3	119.259	3
		0.808	762	615.359	
			765	734.619	
0.000 ^d	38.610	30.983	4	123.933	4
		0.802	761	610.685	
			765	734.619	
0.000 ^e	32.583	25.935	5	129.675	5
		0.796	760	604.943	
			765	734.619	
					() a.
					() b.
					() c
					() d.
					() e.
					() 1

(22)

R ²	Collinearity Statistics	.	t	Standardized Coefficients	Std. Error	B	
	VIF			Beta			
%8.8	1.000	0.000	30.187		0.101	3.035	()
		0.000	8.576	0.296	0.025	0.217	1
		0.000	30.978		0.105	3.241	()
%12.7	1.217	0.000	10.395	0.388	0.027	0.284	2
		0.000	-5.816	-0.217	0.026	-0.152	
		0.000	26.767		0.112	2.989	()
%16.2	1.340	0.000	8.382	0.322	0.028	0.236	
		0.000	-7.074	-0.266	0.026	-0.186	3
		0.000	5.708	0.213	0.026	0.149	
%16.9	1.265	0.000	22.930		0.124	2.854	()
		0.000	7.583	0.299	0.029	0.219	4
		0.000	-7.311	-0.275	0.026	-0.193	
	1.380	0.000	4.784	0.186	0.027	0.130	

	1.349	0.016	2.413	0.093	0.029	0.071	
		0.000	23.174		0.125	2.886	()
	1.436	0.000	7.311	0.288	0.029	0.211	
	1.565	0.000	-5.571	-0.229	0.029	-0.161	
%17.7	1.444	0.000	5.261	0.208	0.028	0.146	5
	1.396	0.004	2.875	0.112	0.030	0.085	
	1.507	0.007	-2.686	-0.109	0.028	-0.075	
							()1

(24 23)

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(P-Value < 0.00)

(%11.5)

(23)

F

(P-Value < 0.05)

(5)

VIF

(1.88) D.W -

(23)

ANOVA

F					
		41.359	1	41.359	
0.000 ^a	48.158	.8590	693	595.159	1
			694	636.518	
		27.719	2	55.437	
0.000 ^b	33.010	0.8400	692	581.081	2
			694	636.518	
		20.498	3	61.495	
0.000 ^c	24.633	0.8320	691	575.023	3
			694	636.518	
		17.296	4	69.185	
0.000 ^d	21.036	0.822	690	567.333	4
			694	636.518	
		14.628	5	73.139	
0.000 ^e	17.890	0.818	689	563.379	5
			694	636.518	
					() a.
					() b.
					() c.
					() d.
					() e.
					() 1

(24)

Collinearity Statistics		Standardized Coefficients				
R ²	VIF		t	Beta	Std. Error	B
		0.000	31.609		0.101	3.194 ()
%6.5	1.000	0.000	6.940	0.255	0.027	0.189 1
		0.000	25.979		0.114	2.967 ()
		1.305	4.166	0.173	0.031	0.128
%8.7	1.305	0.000	4.095	0.170	0.032	0.131 2
		0.000	22.035		0.128	2.811 ()
		1.333	3.744	0.156	0.031	0.116
9.7	1.347	0.000	3.571	0.150	0.032	0.116 3
		1.104	0.007	2.698	0.103	0.027 0.073

		0.000	21.599		0.138	2.976	()	
	1.333	0.000	3.777	0.157	0.031	0.116		
	1.347	0.000	3.635	0.152	0.032	0.117		
%10.9								4
	1.133	0.002	3.164	0.121	0.027	0.087		
	1.030	0.002	-3.058	-0.112-	0.026	-0.078		
%11.5		0.000	20.062		0.144	2.883	()	5
	1.392	0.001	3.254	0.138	0.031	.1020		
	1.396	0.002	3.166	0.134	0.033	0.104		
	1.144	0.001	3.378	0.130	0.027	0.093		
	1.072	0.001	-3.441	-0.128	0.026	-0.090		

1.191 0.028 2.199 0.086 0.029 0.063

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P-Value <)

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F

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(P-Value < 0.05)

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VIF

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D.W

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ANOVA

F					
0.000 ^(a)	25.733	20.297	1	20.297	1
		0.789	306	241.354	
			307	261.651	
0.000 ^(b)	17.655	13.574	2	27.149	2
		0.769	305	234.502	
			307	261.651	
/ () a.					
, / () b					
() c					

(26)

Collinearity Statistics		Standardized Coefficients				
R ²	VIF	t	Beta	Std. Error	B	
7.8%	1.000	0.000	36.272	.0940	3.407	()
		.0000	5.073-	-0.279	.0250	-0.125
		0.0000	25.26	.1490	3.75	()
10.4%	1.046	0.000	4.399-	0.244-	0.025	.109-
	1.046	0.003	2.985	0.165	0.061	0.18
						: 1

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P-Value <)

%17.2

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F

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(P-Value < 0.05)

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VIF

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D.W

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(27)

ANOVA

F					
0.000 ^(a)	17.413	11.972	1	11.972	
		0.688	110	75.629	1
			111	87.602	
0.000 ^(b)	11.319	7.532	2	15.065	
		0.665	109	72.537	2
			111	87.602	
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/ , ()					
() a.					
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(28)

Collinearity Statistics		t	Standardized Coefficients			
R ²	VIF		Beta	Std. Error	B	
		17.459		0.181	3.151	() 1
%13.7						
	1.000	4.173	0.370	0.067	.281	()
		10.629		0.258	2.747	() 2
%17.2						
	1.050	3.671	0.328	0.068	.250	()
	1.050	2.156	0.192	0.107	.230	/
						() 1

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P-Value <)

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F

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VIF

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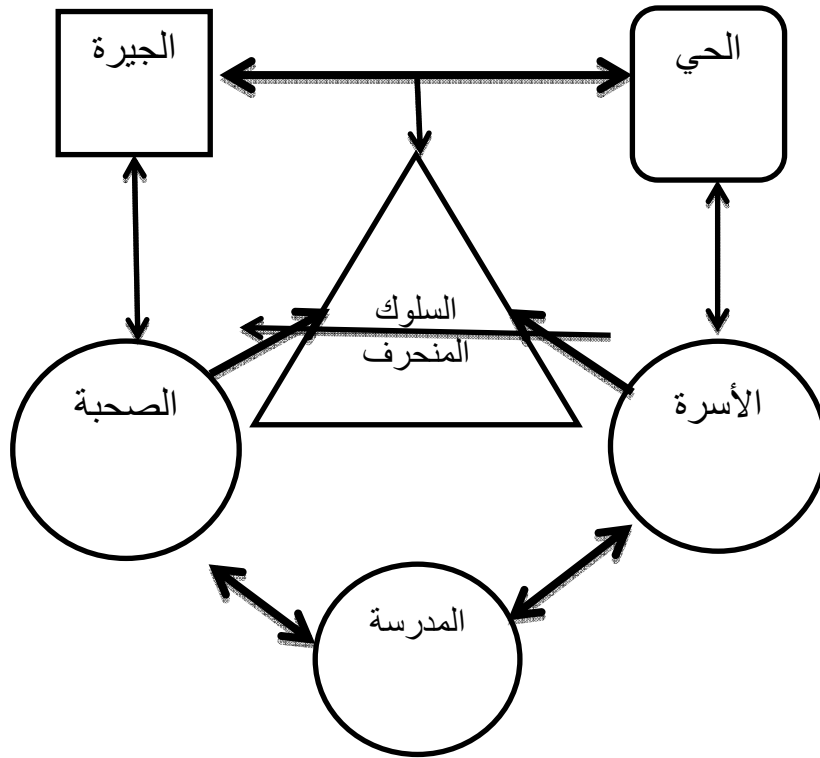
ANOVA

F					
0.000 ^a	80.203	66.036	1	66.036	1
		.823	755	621.632	
			756	687.668	
0.000 ^b	61.991	48.554	2	97.108	2
		0.783	754	590.560	
			756	687.668	
0.000 ^c	49.518	37.770	3	113.311	3
		.763	753	574.357	
			756	687.668	
					(). a.
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(30)

Collinearity Statistics		Standardized Coefficients						
		t		Beta	Std. Error	B		
R ²	VIF							
%9.6		0.000	57.758		0.078	4.494	(1
	1.000	0.000	8.956	0.310	0.039	0.354		
		0.000	26.825		0.140	3.754	(2
%14.1	1.052	0.000	7.549	0.261	0.040	0.298		
	1.052	0.000	6.299-	0.218-	0.037	.232-0		
		0.000	24.581		0.172	4.226	(3
%16.5	1.086	0.000	6.722	0.233	0.040	0.266		
	1.151	0.000	4.753-	0.170-	0.038	.181-0		
	1.158	0.000	4.609	0.165	0.039	0.181	(1

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(Cerkovich & Giordo, 1992)

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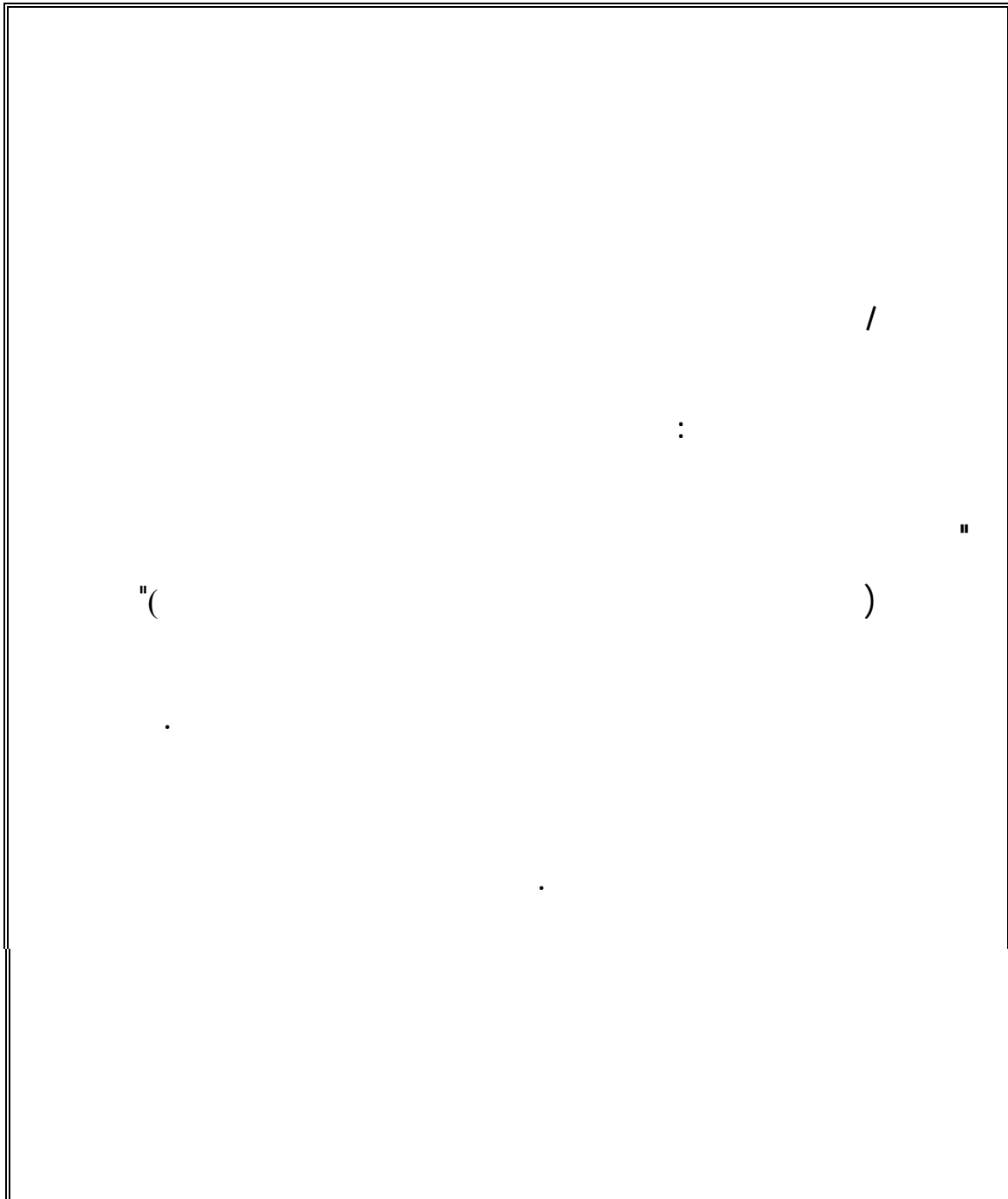
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